

M. abscessus	caatgggcgcaagcctgatgcagcgacgccgcgtgaggggatgacggccttcggggtgtaa	411
M. avium	acaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcggggtgta	
M. bovis	gcacaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcggggtg	
M. chelonae	caatgggcgcaagcctgatgcagcgacgccgcgtgaggggatgacggccttcggggtgtaa	
M. farcinogen	aatgggcgcaagcctgatgcagcgacgccgcgtgaggggatgacggccttcggggtgtaaa	
M. fortuitum	atgggcgcaagcctgatgcagcgacgccgcgtgaggggatgacggccttcggggtgtaaac	
M. gordonae	aatgggcgaaagcctgatgcagcgacgccgcgtgggggatgacggccttcggggtgtaaa	
M. heckeshornense	tattgcacaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgg	
M. intercellulare	caatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcggggtgtaa	
M. kansaii	acaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcggggtgta	
M. kubicae	acaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcggggtgta	
M. lentoflavum	acaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcggggtgta	
M. mucogenicum	aatgggcgcaagcctgatgcagcgacgccgcgtgaggggatgacggccttcggggtgtaaa	
M. parafinum	acaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcggggtgta	
M. simiae	acaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcggggtgta	
M. szulgai	caatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcggggtgtaa	
M. tuberculosis	gcacaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcggggtg	

Fig. 1B

M. abscessus	aacgggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgatc	111
M. avium	aacgggaaaggcccttcgggaggtactcgagtggcgaacgggtgagtaaacacgtgggcaat	
M. bovis	aacgggaaagggtctcttcggagataactcgagtggcgaacgggtgagtaaacacgtgggtgat	
M. chelonae	aacgggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgatc	
M. farcinogen	aacgggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgatct	
M. fortuitum	aacgggaaaggcccttcgggtactcgagtggcgaacgggtgagtaaacacgtgggtgatctg	
M. gordonae	aacggtaaggcccttcgggntacacgagtggcgaacgggtgagtaaacacgtgggtaatct	
M. heckeshornense	aacgggaaaggcccgcttcgggtgggtgctcgagtggcgaacgggtgagtaaacacgtgggtg	
M. intercellulare	aacgggaaagnccccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggcaatc	
M. kansaii	aacgggaaagggtctcttcggagacactcgagtggcgaacgggtgagtaaacacgtgggcaat	
M. kubicae	aacgggaaaggccccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgat	
M. lentoflavum	aacgggaaaggcctcttcggaggtactcgagtggcgaacgggtgagtaaacacgtgggtaat	
M. mucogenicum	aacgggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgatct	
M. parafinum	aacgggaaaggccccttcgggggtactcgagtggcgaacgggtgagtaaacacgtnggcaat	
M. simiae	aacgggaaaggccccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtaat	
M. szulgai	aacgggaaagnccccttcgggntactcgagtggcgaacgggtgagtaaacacgtgggtaatc	
M. tuberculosis	aacgggaaagggtctcttcggagataactcgagtggcgaacgggtgagtaaacacgtgggtgat	



FIG. 1A

M. abscessus	----- <u>acatgcaagtcg</u>	51
M. avium	----- <u>gacgaacgctggcggcgtgcttaacacatgcaagtcg</u>	
M. bovis	----- <u>gcggcgtgcttaacacatgcaagtcg</u>	
M. chelonae	----- <u>gacgaacgctggcggcgtgcttaacacatgcaagtcg</u>	
M. farcinogen	----- <u>cgaacgctcgcggcgtgcttaacacatgcaagtcg</u>	
M. fortuitum	----- <u>ggcggcgtgcttaacacatgcaagtcg</u>	
M. gordonae	----- <u>ggcggcgtgcttaacacatgcaagtcg</u>	
M. heckeshornense	----- <u>tgatcctggctcaggacgaacgctggcggcgtgcttaacacatgcaagtcg</u>	
M. intercellulare	----- <u>ttaacacatgcaagtng</u>	
M. kansasii	----- <u>gcggcgtgcttaacacatgcaagtcg</u>	
M. kubicae	----- <u>gtgcttaacacatgcaagtcg</u>	
M. lentiflavum	----- <u>ggcggcgtgcttaacacatgcaagtcg</u>	
M. mucogenicum	----- <u>gacgaacgctggcggcgtgcttaacacatgcaagtcg</u>	
M. parafinum	----- <u>cgtgcttaacacatgcaagtcg</u>	
M. simiae	----- <u>ggcggcgtgcttaacacatgcaagtcg</u>	
M. szulgai	----- <u>ggcggcgtgcttaacacatgcaagtcg</u>	
M. tuberculosis	----- <u>ggcggcgtgcttaacacatgcaagtcg</u>	

Fig. 1C

M. abscessus	tgccctgcactctgggataagcctgggaaactgggtctaataccggataggaccacacac	171
M. avium	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggacctcaag	
M. bovis	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacggg	
M. chelonae	tgccctgcactctgggataagcctgggaaactgggtctaataccggataggaccacacac	
M. farcinogen	gccctgcactttgggataagcctgggaaactgggtctaataccggataggaccacgcgct	
M. fortuitum	ccctgcactttgggataagcctgggaaactgggtctaataccgaatatgaccgcgcactt	
M. gordonae	gccctgcacatcgggataagcctgggaaactgggtctaataccgaataggaccacaggac	
M. heckeshornense	acctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccgcg	
M. intercellulare	tgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccttagg	
M. kansaii	ctgccctgcacaccgggataagcctgggaaactgggtctaataccggataggaccacttg	
M. kubicae	ctaccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccatgag	
M. lentoflavum	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccttttg	
M. mucogenicum	gccctgcactttgggataagcctgggaaactgggtctaataccgaataggaccacgcgct	
M. parafinum	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacttg	
M. simiae	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacttg	
M. szulgai	tgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccccgagg	
M. tuberculosis	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacggg	

Fig. 1D

M. abscessus	ttcatggtgagtggtgcaaagcttttgcggtgtgggatgagcccgcggcctatcagcttg	231
M. avium	acgcatgtcttctggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. bovis	atgcatgtcttgtggtngaaagcgcttttagcggtgtgggatgagcccgcggcctatcagc	
M. chelonae	ttcatggtgagtggtgcaaagcttttgcggtgtgggatgagcccgcggcctatcagcttg	
M. farcinogen	tcatggtgtgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttgt	
M. fortuitum	cctggtgtgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttgtt	
M. gordonae	acatgtcctgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttgt	
M. heckeshornense	ccatgcatgtggtgtggtggaaagcggtgtggtagtgtggtgtgggatgggcccgcggcctat	
M. intercellulare	cgcatgtctttaggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttg	
M. kansaii	gcgcatgccttgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. kubicae	atgcatgtcttatggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. lentoflavum	gcgcatgccttttggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. mucogenicum	tcatggtgtgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttgt	
M. parafinum	gcgcatgccttgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. simiae	gcgcatgccttgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. szulgai	cgcatgccttgggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttg	
M. tuberculosis	atgcatgtcttctggtggaaagcgcttttagcggtgtgggatgagcccgcggcctatcagc	

Fig. 1E

M. abscessus	Ttggtggggtaatggcccaccaaggcgacgacgggtagccggcctgagaggggtgaccggc	291
M. avium	gttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
M. bovis	ttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtcc	
M. chelonae	ttggtggggtaatggcccaccaaggcgacgacgggtagccggcctgagaggggtgaccggc	
M. farcinogen	tggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtgaccggc	
M. fortuitum	gggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtgaccggc	
M. gordonae	tggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccggc	
M. heckeshornense	cagcttggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggt	
M. intercellulare	ttggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccggc	
M. kansaii	gttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
M. kubicae	gttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
M. lentoflavum	gttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
M. mucogenicum	tggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtgaccggc	
M. parafinum	gttggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
M. simiae	gttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
M. szulgai	ttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccggc	
M. tuberculosis	ttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtcc	

M. abscessus	ccacactgggactgagatacggcccagactcctacgggaggcagcagtgagggaatattgca	351
M. avium	ccacactgggactgagatacggcccagactcctacgggaggcagcagtgagggaatattgc	
M. bovis	ggccacactgggactgagatacggcccagactcctacgggaggcagcagtgagggaatatt	
M. chelonae	cacactgggactgagatacggcccagactcctacgggaggcagcagtgagggaatattgca	
M. farcinogen	acactgggactgagatacggcccagactcctacgggaggcagcagtgagggaatattgcac	
M. fortuitum	cactgggactgagatacggcccagactcctacgggaggcagcagtgagggaatattgcaca	
M. gordonae	acactgggactgagatacggcccagactnctacgggaggcagcagtgagggaatattgcac	
M. heckeshornense	gtccggccacactgggactgagatacggcccagactcctacgggaggcagcagtgaggga	
M. intercellulare	cacactgggactgagatacggcccagactnctacgggaggcagcagtgagggaatattgca	
M. kansaii	ccacactgggactgagatacggcccagactcctacgggaggcagcagtgagggaatattgc	
M. kubicae	ccacactgggactgagatacggcccagactcctacgggaggcagcagtgagggaatattgc	
M. lentoflavum	ccacactgggactgagatacggcccagactcctacgggaggcagcagtgagggaatattgc	
M. mucogenicum	acactgggactgagatacggcccagactcctacgggaggcagcagtgagggaatattgcac	
M. parafinum	ccacactgggactgagatacggcccagactcctacgggaggcagcagtgagggaatattgc	
M. simiae	ccacactgggactgagatacggcccagactnctacgggaggcagcagtgagggaatattgc	
M. szulgai	cacactgggactgagatacggcccagactnctacgggaggcagcagtgagggaatattgca	
M. tuberculosis	ggccacactgggactgagatacggcccagactcctacgggaggcagcagtgagggaatatt	

Fig. 1H

M. abscessus	acctctttcagtagggacgaagcgaaagtgacggtacctacagaagaaggaccggccaac	471
M. avium	aacctctttcaccatcgacgaaggtccgggttttctcggattgacggtaggtggagaaga	
M. bovis	taaacctctttcaccatcgacgaaggtccgggttctctcggattgacggtaggtggagaa	
M. chelonae	acctctttcagtagggacgaagcgaaagtgacggtacctacagaagaaggaccggccaac	
M. farcinogen	cctctttcaatagggacgaagcgcaagtgacggtacctatagaagaaggaccggccaact	
M. fortuitum	ctctttcaatagggacgaagcgcaagtgacggtacctatagaagaaggaccggccaacta	
M. gordonae	cctctttcaccatcgacgaaggtccgggttttctcgggtgacggtaggtggagaagaag	
M. heckeshornense	gttgtaaacctctttcaccatcgacgaagccgcagcttttggtggtgacggtaggtgg	
M. intercellulare	acctctttcaccatcgacgaaggtccgggttttctcggattgacggtaggtggagaaga	
M. kansaii	aacctctttcaccatcgacgaaggtccgggttctctcggattgacggtaggtggagaaga	
M. kubicae	aacctctttcagcagggacgaagcgcaagtgacggtacctgcagaagaagcaccggccaa	
M. lentoflavum	aacctctttcagcagggacgaagcgcaagtgacggtacctgcagaagaagcaccggccaa	
M. mucogenicum	cctctttcaatagggacgaagcgcaagtgacggtacctatagaagaagcaccggccaact	
M. parafinum	aacctctttcaccatcgacgaaggtcacttcgtgagttgacggtaggtggagaagaagc	
M. simiae	aacctctttcagcagggacgaagcgcaagtgacggtacctgcagaagaagcaccggccaa	
M. szulgai	acctctttcaccatcgacgaaggtccgggttttctcggattgacggtaggtggagaaga	
M. tuberculosis	taaacctctttcaccatcgacgaaggtccgggttctctcggattgacggtaggtggagaa	

Fig. 1I

M. abscessus	tacgtgccagcagccgcggttaatacgtaggggtccgagcggttgccggaattactggg	531
M. avium	agcaccggccaactacgtgccagcagccgcggttaatacgtaggggtgcgagcggttgccg	
M. bovis	gaagcaccggccaactacgtgccagcagccgcggttaatacgtaggggtgcgagcggttgcc	
M. chelonae	tacgtgccagcagccgcggttaatacgtaggggtccgagcggttgccggaattactggg	
M. farcinogen	acgtgccagcagccgcggttaatacgtaggggtccgagcggttgccggaattactggg	
M. fortuitum	cgtgccagcagccgcggttaatacgtaggggtccgagcggttgccggaattactggg	
M. gordonae	caccggccaactacgtgccagcagccgcgntaatacgtaggggtgcgagcggttgccgga	
M. heckeshornense	agaagaagcaccggccaactacgtgccagcagccgcggttaatacgtaggggtgcaagcg	
M. intercellulare	gcaccggccaactacgtgccagcagccgcggttaatacgtaggggtgcgagcggttgccg	
M. kansaii	agcaccggccaactacgtgccagcagccgcgntaatacgtaggggtgcgagcggttgccg	
M. kubicae	ctacgtgccagcagccgcggttaatacgtaggggtgcgagcggttgccggaattactggg	
M. lentoflavum	ctacgtgccagcagccgcggttaatacgtaggggtgcgagcggttgccggaattactggg	
M. mucogenicum	acgtgccagcagccgcggttaatacgtaggggtgcgagcggttgccggaattactggg	
M. parafinum	accggccaactacgtgccagcagccgcggttaatacgtaggggtgcgagcggttgccgga	
M. simiae	ctacgtgccagcagccgcggttaatacgtaggggtgcgagcggttgccnggaattactggg	
M. szulgai	gcaccggccaactacgtgccagcagccgcggttaatacgtaggggtgcgagcggttgccg	
M. tuberculosis	gaagcaccggccaactacgtgccagcagccgcggttaatacgtaggggtgcgagcggttgcc	

Fig. 1J

M. abscessus	aaagagctcgtaggtggtttgtcgcgttggttcgtgaaaactcacagcttaactgtgggcg	591
M. avium	aattactgggcgtaaagagctcgtaggtggtttgtcgcgttggttcgtgaaatctcacggc	
M. bovis	ggaattactgggcgtaaagagctcgtaggtggtttgtcgcgttggttcgtgaaatctcacg	
M. chelonae	aaagagctcgtaggtggtttgtcgcgttggttcgtgaaaactcacagcttaactgtgggcg	
M. farcinogen	aagagctcgtaggtggtttgtcgcgttggttcgtgaaaactcacagcttaactgtgggcgt	
M. fortuitum	agagctcgtaggtggtttgtcgcgttggttcgtgaaaactcacagcttaactgtgggcgtg	
M. gordonae	ttactgggcgtaaagagctcgtaggtggtttgtcgcgttggttcgtgaaatctcacggcgt	
M. heckeshornense	gtccggaattactgggcgtaaagagctcgtaggcggccttggttcgcgttggttcgtggaatgc	
M. intercellulare	attactgggcgtaaagagctcgtaggtggtttgtcgcgttggttcgtgaaatctcacggcgt	
M. kansaii	aattactgggcgtaaagagctcgtaggtggtttgtcgcgttggttcgtgaaatctcacggc	
M. kubicae	taaagagctcgtaggtggtttgtcgcgttggttcgtgaaaaccgggggcttaaccctcggc	
M. lentoflavum	taaagagctcgtaggtggtttgtcgcgttggttcgtgaaaaccgggggcttaaccctcggc	
M. mucogenicum	aagagctcgtaggtggtttgtcgcgttggttcgtgaaaactcacagcttaactgtgggcgt	
M. parafinum	tactgggcgtaaagagctcgtaggtggtttgtcgcgttggttcgtgaaatctcacggccta	
M. simiae	taaagagctcgtaggtggtttgtcgcgttggttcgtgaaaaccgggggcttaaccctcggc	
M. szulgai	attactgggcgtaaagagctcgtaggtggtttgtcgcgttggttcgtgaaatctcacggcgt	
M. tuberculosis	ggaattactgggcgtaaagagctcgtaggtggtttgtcgcgttggttcgtgaaatctcacg	

Fig. 1K

M. abscessus	tgcgggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	651
M. avium	ttaaactgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaatt	
M. bovis	gcttaactgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaa	
M. chelonae	tgcgggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	
M. farcinogen	gcgggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	
M. fortuitum	cgggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	
M. gordonae	aactgtgagcgtgcggncgatacgggcagacttgagtactgcaggggagactggaattcc	
M. heckeshornense	cacagcttaactgtggcggtgcgggcgatacgggcaggctggagtgtgcaggggagact	
M. intercellulare	taactgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaattc	
M. kansaii	ttaaactgtgagcgtgcggncgatacgggcagactagagtactgcaggggagactggaatt	
M. kubicae	gtgcgggcgatacgggcagactggagtactgcaggggagactggaattcctggtgtagcg	
M. lentoflavum	gtgcgggcgatacgggcagactggagtactgcaggggagactggaattcctggtgtagcg	
M. mucogenicum	gcgggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	
M. parafinum	actgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaattcct	
M. simiae	gtgcgggcgatacgggcagactggagtactgcaggggagactggaattcctggtgtagcg	
M. szulgai	taactgtgagcgtgcggncgatacgggcagactggagtactgcaggggagactggaattc	
M. tuberculosis	gcttaactgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaa	

[illegible]

FIGURE 1M

M. abscessus	gacgctga ggagcgaaag cgtgggtagc gaacaggatt agataccctg gtagtccacg ccgtaaacgg tgggtactag gtgtggggtt ccttccttgg gatccgtgcc gtagctaacg cattaagtac cccgcctggg gagtacggtc gcaagactaa aactcaaagg aattgacggg ggcccgcaca agcggcggag catgtggatt aattcgatgc aacgcgaaga accttacctg ggtttgacat gcacaggacg tatctagaga taggtattcc cttgtggcct gtgtgcagggt ggtgcatggc tgtcgtcagc tcgtgtcgtg agatgttggg ttaagtcccg caacgagcgc aacccttgtc ctatgttgcc agcgggtaat gccggggact cgtaggagac tgccggggtc aactcggagg aaggtgggga tgacgtcaag tcatcatgcc cttatgtcc agggcttcac acatgctaca atggccagta cagagggctg cgaagccgta aggtggagcg aatcccttaa agctggtctc agttcggatt ggggtctgca actcgacccc atgaagtcgg cctggtgtagcgggtggaatgcgagatatcaggaggaacacccggtggcgaaggcgggtct
M. avium	
M. bovis	ttcctggtgtagcgggtggaatgcgagatatcaggaggaacacccggtgncgaaggcgggt
M. chelonae	tggaatgcgagatatcaggaggaacacccggtggcgaaggcgggtctctgggcagtaact
M. farcinogen	ggaatgcgagatatcaggaggaacacccggtggcgaaggcgggtctctgggcagtaactg
M. fortuitum	gaatgcgagatatcaggaggaacacccggtggcgaaggcgggtctctgggcagtaactga
M. gordonae	tggtgtagcgggtggaatgcgagatatcaggaggaacacccggtggcgaaggcgggtctct
M. heckeshornense	ggaattcctggtgtagcgggtggaatgcgagatatcaggaggaacacccggtggcgaaggc
M. intercellulare	ctggtgtagcgggtggaatgcgagatatcaggaggaacacccggtggcgaaggcgggtctc
M. kansaii	cctggtgtagcgggtggaatgcgagatatcaggaggaacacccggtggcgaaggcgggtct
M. kubicae	gtggaatgcgagatatcaggaggaacacccggtggcgaaggcgggtctctgggcagtaac
M. lentoflavum	gtggaatgcgagatatcaggaggaacacccggtggcgaaggcgggtctctgggcagtaac
M. mucogenicum	ggaatgcgagatatcaggaggaacacccggtggcgaaggcgggtctctgggcagtaactg
M. parafinum	ggtgtagcgggtggaatgcgagatatcaggaggaacacccggtggcgaaggcgggtctctg
M. simiae	gtggaatgcgagatatcaggaggaacacccggtggcgaaggcgggtctctgggcagtaac
M. szulgai	ctggtgtagcngtggaatgcgagatatcaggaggaacacccggtggcgaaggcgggtctc
M. tuberculosis	ttcctggtgtagcgggtggaatgcgagatatcaggaggaacacccggtggcgaaggcgggt

Fig. 2A

M. abscessus	----- <u>acatgcaagtcg</u>	51
M. avium	-----gacgaacgctggcggcgtgcttaacacatgcaagtcg	
M. bovis	-----gcgggcgtgcttaacacatgcaagtcg	
M. chelonae	-----gacgaacgctggcggcgtgcttaacacatgcaagtcg	
M. farcinogen	-----cgaacgctcgcggcgtgcttaacacatgcaagtcg	
M. fortuitum	-----ggcggcgtgcttaacacatgcaagtcg	
M. gordonae	-----ggcggcgtgcttaacacatgcaagtcg	
M. heckeshornense	-----tgatcctggctcaggacgaacgctggcggcgtgcttaacacatgcaagtcg	
M. intercellulare	----- <u>ttaacacatgcaagtng</u>	
M. kansasii	-----gcgggcgtgcttaacacatgcaagtcg	
M. kubicae	-----gtgcttaacacatgcaagtcg	
M. lentiflavum	-----ggcggcgtgcttaacacatgcaagtcg	
M. mucogenicum	-----gacgaacgctggcggcgtgcttaacacatgcaagtcg	
M. parafinum	-----cgtgcttaacacatgcaagtcg	
M. simiae	-----ggcggcgtgcttaacacatgcaagtcg	
M. szulgai	-----ggcggcgtgcttaacacatgcaagtcg	
M. tuberculosis	-----ggcggcgtgcttaacacatgcaagtcg	

Fig. 2B

M. abscessus	aacgggaaaggcc-cttcgg-ggtact-cgagtggcgaacgggtgagtaacacgtgggtgat	111
M. avium	aacggaaaggcct-cttcggaggtact-cgagtggcgaacgggtgagtaacacgtgggcaat	
M. bovis	aacggaaaggctct-cttcggagatact-cgagtggcgaacgggtgagtaacacgtgggtgat	
M. chelonae	aacgggaaaggcc-cttcgg-ggtact-cgagtggcgaacgggtgagtaacacgtgggtgat	
M. farcinogen	aacggaaaggcc--cttcggg-gtact-cgagtggcgaacgggtgagtaacacgtgggtgat	
M. fortuitum	aacggaaaggcc--cttcggg--tact-cgagtggcgaacgggtgagtaacacgtgggtgat	
M. gordonae	aacggtaaggcc--cttcgggn-taca-cgagtggcgaacgggtgagtaacacgtgggtaat	
M. heckeshornense	aacggaaaggcccgcttcgggtgggtgctcgagtggcgaacgggtgagtaacacgtgggtgac	
M. intercellulare	aacggaaagnccc-cttcgg--gggtactcgagtggcgaacgggtgagtaacacgtgggcaat	
M. kansaii	aacggaaaggctct-cttcggagac-actcgagtggcgaacgggtgagtaacacgtgggcaat	
M. kubicae	aacggaaaggccc-cttcgggggt-actcgagtggcgaacgggtgagtaacacgtgggtgat	
M. lentoflavum	aacggaaaggcct-cttcggaggt-actcgagtggcgaacgggtgagtaacacgtgggtaat	
M. mucogenicum	aacggaaaggcc--cttcgg-ggt-actcgagtggcgaacgggtgagtaacacgtgggtgat	
M. parafinum	aacggaaaggccc-cttcgggggt-actcgagtggcgaacgggtgagtaacacgtngcaat	
M. simiae	aacggaaaggccc-cttcgggggt-actcgagtggcgaacgggtgagtaacacgtgggtaat	
M. szulgai	aacggaaagnccc-cttcgggn-t-actcgagtggcgaacgggtgagtaacacgtgggtaat	
M. tuberculosis	aacggaaaggctct-cttcggagat-actcgagtggcgaacgggtgagtaacacgtgggtgat	

Fig. 2C

M. abscessus	ctgccctgcactctgggataagcctgggaaactgggtctaataccggataggaccacaca	171
M. avium	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggacctcaag	
M. bovis	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacggg	
M. chelonae	ctgccctgcactctgggataagcctgggaaactgggtctaataccggataggaccacaca	
M. farcinogen	ctgccctgcactttgggataagcctgggaaactgggtctaataccggataggaccacgcg	
M. fortuitum	ctgccctgcactttgggataagcctgggaaactgggtctaataccgaatatgaccgcgca	
M. gordonae	ctgccctgcacatcgggataagcctgggaaactgggtctaataccgaataggaccacagg	
M. heckeshornense	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccgcgcc	
M. intercellulare	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggacctttag	
M. kansaii	ctgccctgcacaccgggataagcctgggaaactgggtctaataccggataggaccacttg	
M. kubicae	ctaccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccatgag	
M. lentoflavum	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccttttg	
M. mucogenicum	ctgccctgcactttgggataagcctgggaaactgggtctaataccgaataggaccacgcg	
M. parafinum	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacttg	
M. simiae	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacttg	
M. szulgai	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccccgag	
M. tuberculosis	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacggg	

Fig. 2D

M. abscessus	cttcatggtgagtggtgcaaagc-tttt---gcggtgtgggatgagcccgcggcctatca	231
M. avium	acgcatgtcttctggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. bovis	atgcatgtcttctggtngaaagcgctt--agcgtgtgggatgagcccgcggcctatca	
M. chelonae	cttcatggtgagtggtgcaaagc-tttt---gcggtgtgggatgagcccgcggcctatca	
M. farcinogen	cttcatggtgtgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. fortuitum	cttctggtgtgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. gordonae	acacatgtcctgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. heckeshornense	atgcatgtggtgtggtggaaagcggtgtggtagtgtgtgggatgggcccgcggcctatca	
M. intercellulare	gcgcatgtctttaggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. kansaii	gcgcatgccttgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. kubicae	atgcatgtcttatggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. lentoflavum	gcgcatgccttttgggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. mucogenicum	cttcatggtgtgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. parafinum	gcgcatgccttgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. simiae	gcgcatgccttgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. szulgai	gcgcatgccttgggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. tuberculosis	atgcatgtcttctggtggaaagcgctt--agcgtgtgggatgagcccgcggcctatca	

Fig. 2E

M. abscessus	gcttggttggtgggtaatggccaccaaaggcgacgacgggtagccggcctgagaggggtga	291
M. avium	gcttggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. bovis	gcttggttggtggggtnacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. chelonae	gcttggttggtggggtaatggccaccaaaggcgacgacgggtagccggcctgagaggggtga	
M. farcinogen	gcttggttggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtga	
M. fortuitum	gcttggttggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtga	
M. gordonae	gcttggttggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. heckeshornense	gcttggttggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. intercellulare	gcttggttggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. kansaii	gcttggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. kubicae	gcttggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. lentoflavum	gcttggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. mucogenicum	gcttggttggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtga	
M. parafinum	gcttggttggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. simiae	gcttggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. szulgai	gcttggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. tuberculosis	gcttggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgaga-ggtgt	

Fig. 2F

<i>M. abscessus</i>	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	351
<i>M. avium</i>	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
<i>M. bovis</i>	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
<i>M. chelonae</i>	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
<i>M. farcinogen</i>	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
<i>M. fortuitum</i>	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
<i>M. gordonae</i>	ccggccacactgggactgagatacggcccagactnctacgggaggcagcagtggggaata	
<i>M. heckeshornense</i>	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
<i>M. intercellulare</i>	ccggccacactgggactgagatacggcccagactnctacgggaggcagcagtggggaata	
<i>M. kansaii</i>	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
<i>M. kubicae</i>	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
<i>M. lentoflavum</i>	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
<i>M. mucogenicum</i>	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
<i>M. parafinum</i>	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
<i>M. simiae</i>	ccggccacactgggactgagatacggcccagactnctacgggaggcagcagtggggaata	
<i>M. szulgai</i>	ccggccacactgggactgagatacggcccagactontacgggaggcagcagtggggaata	
<i>M. tuberculosis</i>	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	

Fig. 2G

<i>M. abscessus</i>	ttgcacaatgggcgcaagcctgatgcagcgacgccgcgtgagggatgacggccttcgggt	411
<i>M. avium</i>	ttgcacaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggt	
<i>M. bovis</i>	ttgcacaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggcctt-ggggt	
<i>M. chelonae</i>	ttgcacaatgggcgcaagcctgatgcagcgacgccgcgtgagggatgacggccttcgggt	
<i>M. farcinogen</i>	ttgcacaatgggcgcaagcctgatgcagcgacgccgcgtgagggatgacggccttcgggt	
<i>M. fortuitum</i>	ttgcacaatgggcgcaagcctgatgcagcgacgccgcgtgagggatgacggccttcgggt	
<i>M. gordonae</i>	ttgcacaatgggcgaaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggt	
<i>M. heckeshornense</i>	ttgcacaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggt	
<i>M. intercellulare</i>	ttgcacaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggt	
<i>M. kansaii</i>	ttgcacaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggt	
<i>M. kubicae</i>	ttgcacaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggt	
<i>M. lentoflavum</i>	ttgcacaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggt	
<i>M. mucogenicum</i>	ttgcacaatgggcgcaagcctgatgcagcgacgccgcgtgagggatgacggccttcgggt	
<i>M. parafinum</i>	ttgcacaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggt	
<i>M. simiae</i>	ttgcacaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggt	
<i>M. szulgai</i>	ttgcacaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggt	
<i>M. tuberculosis</i>	ttgcacaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggt	

Fig. 2H

M. abscessus	tgtaaacctctttcagtagggacgaagcgaaagtgacggtacctacagaagaaggaccgg	471
M. avium	tgtaaacctctttcaccatcgacgaaggtccgggttttctcggattgacggtaggtggag	
M. bovis	tgtaaacctctttcaccatcgacgaaggtccgggttctctcggattgacggtaggtggag	
M. chelonae	tgtaaacctctttcagtagggacgaagcgaaagtgacggtacctacagaagaaggaccgg	
M. farcinogen	tgtaaacctctttcaatagggacgaagcgcaagtgacggtacctatagaagaaggaccgg	
M. fortuitum	tgtaaacctctttcaatagggacgaagcgcaagtgacggtacctatagaagaaggaccgg	
M. gordonae	tgtaaacctctttcaccatcgacgaaggtccgggttttctcgggctgacggtaggtggag	
M. heckeshornense	tgtaaacctctttcaccatcgacgaagcgagcttttgttggtgacggtaggtggag	
M. intercellulare	tgtaaacctctttcaccatcgacgaaggtccgggttttctcggattgacggtaggtggag	
M. kansaii	tgtaaacctctttcaccatcgacgaaggtccgggttctctcggattgacggtaggtggag	
M. kubicae	tgtaaacctctttcagcagggacgaagcgcaagtgacggtacctgcagaagaagcaccgg	
M. lentoflavum	tgtaaacctctttcagcagggacgaagcgcaagtgacggtacctgcagaagaagcaccgg	
M. mucogenicum	tgtaaacctctttcaatagggacgaagcgcaagtgacggtacctatagaagaagcaccgg	
M. parafinum	tgtaaacctctttcaccatcgacgaaggtcacttcgtgagttgacggtaggtggagaag	
M. simiae	tgtaaacctctttcagcagggacgaagcgcaagtgacggtacctgcagaagaagcaccgg	
M. szulgai	tgtaaacctctttcaccatcgacgaaggtccgggttttctcggattgacggtaggtggag	
M. tuberculosis	tgtaaacctctttcaccatcgacgaaggtccgggttctctcggattgacggtaggtggag	

Fig. 2I

<i>M. abscessus</i>	-----ccaactacgtgccagcagccgcggttaatacgtaggggtccgagcgttgt	531
<i>M. avium</i>	aag---caccggccaactacgtgccagcagccgcggttaatacgtaggggtgcgagcgttgt	
<i>M. bovis</i>	aagaagcaccggccaactacgtgccagcagccgcggttaatacgtaggggtgcgagcgttgt	
<i>M. chelonae</i>	-----ccaactacgtgccagcagccgcggttaatacgtaggggtccgagcgttgt	
<i>M. farcinogen</i>	-----ccaactacgtgccagcagccgcggttaatacgtaggggtccgagcgttgt	
<i>M. fortuitum</i>	-----ccaactacgtgccagcagccgcggttaatacgtaggggtccgagcgttgt	
<i>M. gordonae</i>	aagaagcaccggccaactacgtgccagcagccgcgntaatacgtaggggtgcgagcgttgt	
<i>M. heckeshornense</i>	aagaagcaccggccaactacgtgccagcagccgcggttaatacgtaggggtgcaagcgttgt	
<i>M. intercellulare</i>	aagaagcaccggccaactacgtgccagcagccgcggttaatacgtaggggtgcgagcgttgt	
<i>M. kansaii</i>	aagaagcaccggccaactacgtgccagcagccgcgntaatacgtaggggtgcgagcgttgt	
<i>M. kubicae</i>	-----ccaactacgtgccagcagccgcggttaatacgtaggggtgcgagcgttgt	
<i>M. lentoflavum</i>	-----ccaactacgtgccagcagccgcggttaatacgtaggggtgcgagcgttgt	
<i>M. mucogenicum</i>	-----ccaactacgtgccagcagccgcggttaatacgtaggggtgcgagcgttgt	
<i>M. parafinum</i>	aag---caccggccaactacgtgccagcagccgcggttaatacgtaggggtgcgagcgttgt	
<i>M. simiae</i>	-----ccaactacgtgccagcagccgcggttaatacgtaggggtgcgagcgttgt	
<i>M. szulgai</i>	aagaagcaccggccaactacgtgccagcagccgcggttaatacgtaggggtgcgagcgttgt	
<i>M. tuberculosis</i>	aagaagcaccggccaactacgtgccagcagccgcggttaatacgtaggggtgcgagcgttgt	

Fig. 2J

<i>M. abscessus</i>	ccggaattactgggcgtaaagagctcgtaggtggtttgtcgcggttggtcgtgaaaactca	591
<i>M. avium</i>	ccggaattactgggcgtaaagagctcgtaggtggtttgtcgcggttggtcgtgaaatctca	
<i>M. bovis</i>	ccggaattactgggcgtaaagagctcgtaggtggtttgtcgcggttggtcgtgaaatctca	
<i>M. chelonae</i>	ccggaattactgggcgtaaagagctcgtaggtggtttgtcgcggttggtcgtgaaaactca	
<i>M. farcinogen</i>	ccggaattactgggcgtaaagagctcgtaggtggtttgtcgcggttggtcgtgaaaactca	
<i>M. fortuitum</i>	ccggaattactgggcgtaaagagctcgtaggtggtttgtcgcggttggtcgtgaaaactca	
<i>M. gordonae</i>	ccggaattactgggcgtaaagagctcgtaggtggtttgtcgcggttggtcgtgaaatctca	
<i>M. heckeshornense</i>	ccggaattactgggcgtaaagagctcgtaggtggtttgtcgcggttggtcgtggaatgcca	
<i>M. intercellulare</i>	ccggaattactgggcgtaaagagctcgtaggtggtttgtcgcggttggtcgtgaaatctca	
<i>M. kansaii</i>	ccggaattactgggcgtaaagagctcgtaggtggtttgtcgcggttggtcgtgaaatctca	
<i>M. kubicae</i>	ccggaattactgggcgtaaagagctcgtaggtggtttgtcgcggttggtcgtgaaaaccgg	
<i>M. lentoflavum</i>	ccggaattactgggcgtaaagagctcgtaggtggtttgtcgcggttggtcgtgaaaaccgg	
<i>M. mucogenicum</i>	ccggaattactgggcgtaaagagctcgtaggtggtttgtcgcggttggtcgtgaaaactca	
<i>M. parafinum</i>	ccggaattactgggcgtaaagagctcgtaggtggtttgtcgcggttggtcgtgaaatctca	
<i>M. simiae</i>	cnggaattactgggcgtaaagagctcgtaggtggtttgtcgcggttggtcgtgaaaaccgg	
<i>M. szulgai</i>	ccggaattactgggcgtaaagagctcgtaggtggtttgtcgcggttggtcgtgaaatctca	
<i>M. tuberculosis</i>	ccggaattactgggcgtaaagagctcgtaggtggtttgtcgcggttggtcgtgaaatctca	

Fig. 2K

M. abscessus	cagcttaactgtgggcgtgcgggogatacgggcagactagagtactgcaggggagactgg
M. avium	cggttaactgtgagcgtgcgggogatacgggcagactagagtactgcaggggagactgg
M. bovis	cggttaactgtgagcgtgcgggogatacgggcagactagagtactgcaggggagactgg
M. chelonae	cagcttaactgtgggcgtgcgggogatacgggcagactagagtactgcaggggagactgg
M. farcinogen	cagcttaactgtgggcgtgcgggogatacgggcagactagagtactgcaggggagactgg
M. fortuitum	cagcttaactgtgggcgtgcgggogatacgggcagactagagtactgcaggggagactgg
M. gordonae	cggttaactgtgagcgtgcggncgatacgggcagacttgagtactgcaggggagactgg
M. heckeshornense	cagcttaactgtgggcgtgcgggogatacgggcaggctggagtgtctgcaggggagactgg
M. intercellulare	cggttaactgtgagcgtgcgggogatacgggcagactagagtactgcaggggagactgg
M. kansaii	cggttaactgtgagcgtgcgngcgatacgggcagactagagtactgcaggggagactgg
M. kubicae	gggttaaccctcggcgtgcgggogatacgggcagactggagtactgcaggggagactgg
M. lentoflavum	gggttaaccctcggcgtgcgggogatacgggcagactggagtactgcaggggagactgg
M. mucogenicum	cagcttaactgtgggcgtgcgggogatacgggcagactagagtactgcaggggagactgg
M. parafinum	cggttaactgtgagcgtgcgggogatacgggcagactagagtactgcaggggagactgg
M. simiae	gggttaaccctcggcgtgcgggogatacgggcagactggagtactgcaggggagactgg
M. szulgai	cggttaactgtgagcgtgcggncgatacgggcagactggagtactgcaggggagactgg
M. tuberculosis	cggttaactgtgagcgtgcgggogatacgggcagactagagtactgcaggggagactgg

Fig. 2L

M. abscessus	<u>aattcctggtgtagcggtggaatgcg</u> cagatatcaggaggaacacccggtggcgaaggcgg	711
M. avium	<u>aattcctggtgtagcggtggaatgcg</u> cagatatcaggaggaacacccggtggcgaaggcgg	
M. bovis	<u>aattcctggtgtagcggtggaatgcg</u> cagatatcaggaggaacacccggtgncgaaggcgg	
M. chelonae	<u>aattcctggtgtagcggtggaatgcg</u> cagatatcaggaggaacacccggtggcgaaggcgg	
M. farcinogen	<u>aattcctggtgtagcggtggaatgcg</u> cagatatcaggaggaacacccggtggcgaaggcgg	
M. fortuitum	<u>aattcctggtgtagcggtggaatgcg</u> cagatatcaggaggaacacccggtggcgaaggcgg	
M. gordonae	<u>aattcctggtgtagcggtggaatgcg</u> cagatatcaggaggaacacccggtggcgaaggcgg	
M. heckeshornense	<u>aattcctggtgtagcggtggaatgcg</u> cagatatcaggaggaacacccggtggcgaaggcgg	
M. intercellulare	<u>aattcctggtgtagcggtggaatgcg</u> cagatatcaggaggaacacccggtggcgaaggcgg	
M. kansaii	<u>aattcctggtgtagcggtggaatgcg</u> cagatatcaggaggaacacccggtggcgaaggcgg	
M. kubicae	<u>aattcctggtgtagcggtggaatgcg</u> cagatatcaggaggaacacccggtggcgaaggcgg	
M. lentoflavum	<u>aattcctggtgtagcggtggaatgcg</u> cagatatcaggaggaacacccggt-----	
M. mucogenicum	<u>aattcctggtgtagcggtggaatgcg</u> cagatatcaggaggaacacccggtggcgaaggcgg	
M. parafinum	<u>aattcctggtgtagcggtggaatgcg</u> cagatatcaggaggaacacccggtggcgaaggcgg	
M. simiae	<u>aattcctggtgtagcggtggaatgcg</u> cagatatcaggaggaacacccggtggcgaaggcgg	
M. szulgai	<u>aattcctggtgtagcngtggaatgcg</u> cagatatcaggaggaacacccggtggcgaaggcgg	
M. tuberculosis	<u>aattcctggtgtagcggtggaatgcg</u> cagatatcaggaggaacacccggtggcgaaggcgg	

Fig. 2M

M. abscessus	gtctctgggcagtaactgacgctgaggagcgaaagcgtgggtagcgaacaggattagataccctg
M. avium	gtctctgggcagtaactgacgctgagg-----
M. bovis	gtctctgggcagtaactgacgctgaggagcgaaag-----
M. chelonae	gtctctgggcagtaactgacgctgaggagcgaaagcgtgg-----
M. farcinogen	gtctctgggcagtaactgacgctgaggagcgaaagcgtgggga-----
M. fortuitum	gtctctgggcagtaactgacgctgaggagcgaaagcgtggggagcgaacagg-----
M. gordonae	gtctctgggcagtaactgacgctgaggagcgaaagcgtg-----
M. heckeshornense	gtctctg-----
M. intercellulare	gtctctgggcagtaactgacgctgaggagcgaaagcgtggggagcgaa-----
M. kansaii	gtctctgggcagtaactgacgctgaggagcgaaagcgt-----
M. kubicae	gtctctgggcagtaactgacgctgaggagcgaaagcgtggggagcgaacaggatt-----
M. lentoflavum	-----
M. mucogenicum	gtctctgggcagtaactgacgctgaggagcgaaagcgtggg-----
M. parafinum	gtctctgggcagtaactgacgctgaggagcgaaagcgtggggagc-----
M. simiae	gtctctgggcagtaactgacgctgaggagcgaaagcgtggggagcgaac-----
M. szulgai	gtctctgggcagtaactgacgctgaggagcgaaagcgt-----
M. tuberculosis	gtctctgggcagtaactgacgctgaggagcgaaag-----

Fig. 1B

M. abscessus	aacgggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgatc	111
M. avium	aacggaaaggcccttcgggagtactcgagtggcgaacgggtgagtaaacacgtgggcaat	
M. bovis	aacggaaagggtctcttcgggagatactcgagtggcgaacgggtgagtaaacacgtgggtgat	
M. chelonae	aacgggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgatc	
M. farcinogen	aacggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgatct	
M. fortuitum	aacggaaaggcccttcgggtactcgagtggcgaacgggtgagtaaacacgtgggtgatctg	
M. gordonae	aacggtaaggcccttcgggntacacgagtggcgaacgggtgagtaaacacgtgggtaatct	
M. heckeshornense	aacggaaaggcccgcttcgggtgggtgctcgagtggcgaacgggtgagtaaacacgtgggtg	
M. intercellulare	aacggaaagncccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggcaatc	
M. kansaii	aacggaaagggtctcttcgggagacactcgagtggcgaacgggtgagtaaacacgtgggcaat	
M. kubicae	aacggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgat	
M. lentoflavum	aacggaaaggcccttcgggagtactcgagtggcgaacgggtgagtaaacacgtgggtaat	
M. mucogenicum	aacggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgatct	
M. parafinum	aacggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtngcaat	
M. simiae	aacggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtaat	
M. szulgai	aacggaaagncccttcgggntactcgagtggcgaacgggtgagtaaacacgtgggtaatc	
M. tuberculosis	aacggaaagggtctcttcgggagatactcgagtggcgaacgggtgagtaaacacgtgggtgat	